

WHAT IS CLAIMED IS:

1. Noctilucent polyurethane chips prepared by the process comprising:
collecting waste polyurethane scraps and separating the scraps according to
5 their colors;
pulverizing the waste polyurethane scraps in a predetermined size;
mixing 2-5kg of stearic acid, 1-10kg of a photoluminescent pigment, 1-3kg
of a flame retardant, 0.1-1kg of titanium dioxide and 10-30kg of heavy calcium
carbonate based on 100kg of the pulverized waste polyurethane scraps;
10 extruding the mixture through an extruder; and
cutting the extruded polyurethane in particle diameter of 3-10mm.
2. Noctilucent polyurethane chips according to claim 1 wherein the waste
polyurethane scraps are selected from soles of shoes, refrigerator parts, vehicle parts,
and decrepit polyurethane resilient pavement.
- 15 3. Noctilucent polyurethane chips according to claim 1, wherein the
mixing comprises stirring.
4. A method of manufacturing noctilucent polyurethane chips comprising
the steps of:
obtaining a quantity of coarse waste polyurethane scraps, separating the
20 scraps according to their colors and removing impurities stuck to the scraps;
pulverizing the prepared waste polyurethane scraps in a predetermined size;
based on 100kg of the pulverized waste polyurethane scraps, adding 2-5kg
of stearic acid, 1-10kg of a photoluminescent pigment, 1-3kg of a flame retardant,

0.1-1kg of titanium dioxide and 10-30kg of heavy calcium carbonate, and mixing by stirring and then extruding through an extruder; and

cutting the extruded polyurethane in particle diameter of 3-10mm.

5. A method of manufacturing noctilucent polyurethane chips according to claim 3, wherein the waste polyurethane scraps are selected from soles of shoes, refrigerator parts, vehicle parts, and decrepit polyurethane resilient pavement.